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To:	Diane Mizrahi	From:	Leonid Andreev
Fax:	703-746-5612	Pages:	15 incl. cover
Phone:	702-305-3806	Date:	6/13/2005
Re:	Application # 10/622,542	CC:	

☐ Urgent   ☐ For Review   ☐ Please Comment   ☐ Please Reply   ☐ Please Recycle

● **Comments:**

Dear Ms. Mizrahi:

Attached please find my reply to non-final Office Action on my Patent Application No. 10/622,542.

The original is being sent by Express Mail Service.

Sincerely yours,

Leonid Andreev

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June 13, 2005

Attn: Diane D. Mizrahi
Primary Patent Examiner
USPTO
VIA FACSIMILE 703-872-9306 and Express Mail Service

<u>Re: Non-final Office Action on Patent Application No. 10/622,542</u>

Dear Ms. Mizrahi:

This communication is in reply to non-final Office Action dated 05/06/2005 relating to
Patent Application No. 10/622,542 "High-dimensional data clustering with the use of hybrid
similarity matrices".

The Action rejects Claims 1 – 8 under 35 U.S.C. 102 (e) as being anticipated by U.S. Patent
No. 6020883 by Frederick Herz et al. Below we will demonstrate by a preponderance of the
evidence that this reference cannot be relied on as a basis for rejections of Claims 1 – 8 as it does not
teach the method disclosed and claimed by our application.

At the outset it is well to overview the main concepts and terms presented in our disclosure,
as such overview will help Examiner understand why Examiner erred in concluding that the
reference patent teaches the method disclosed in our application. The overview, entitled
"Comments", follows below. The second part of this communication is entitled "Remarks" and
replies to every ground of objection and rejection in the Office Action.

<div align="center">COMMENTS</div>

1. Evolutionary transformation of a similarity matrix

The concept of hybrid similarity matrices and new metrics for computation of similarities
have been developed by Leonid Andreev (Applicant hereinafter) as applied to the method of
evolutionary transformation of similarity matrices (ETSM) to provide scientifically well-grounded
techniques for presentation of input data. As a clustering method, ETSM has no analogs and is